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(71) Applicant: NISSAN MOTOR CO LTD

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(54) HEAT RAY CUT-OFF GLASS AND ITS PRODUCTION

(57) Abstract:

PURPOSE: To obtain a heat ray cutoff glass by laminating a 1st dielectric
film on a glass substrate as a 1st layer
from the substrate side, a tungsten
oxide film thereon as a 2nd layer and a
2nd dielectric film further thereon as a
3rd layer.

CONSTITUTION: A transparent glass substrate is defatted, cleaned and dried

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ratio of 2.60-2.98 is film-formed as the vacuum and introducing Ar/O2 mixed sputtering device. Next, the 1st dielectric film of silicon oxide having index of 1.4-1.9 is film-formed on the sputtering the Ar/O2 mixed gas to the 1.9 is film-formed as the 3rd layer by and arranged in a vacuum vessel of a thickness and refractive index of 1.4silicon oxide target to obtain the heat mixed gas to a tungsten oxide target. sputtering. Next, the tungsten oxide refractive index of 1.9-2.8 and 0/W 2-300nm thickness and refractive 2nd layer by sputtering the Ar/O2 Further, the 2nd dielectric film of glass substrate as the 1st layer by evacuating the vacuum vessel to film having 2-300nm thickness, gas to a silicon oxide target for silicon oxide having 2-300nm ray cut-off glass.

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